CLAIMS

1. A method relating to identification systems in which a transponder (1) reflects an inquiry signal (10) from a communicator (4), where said reflected signal (11) has been modulated with data that can be read by a communicator (4), and where said data-carrying modulation includes a check sum calculated on the basis of data stored in the memory (3) of the transponder, **characterized by** causing the check sum to be permanently stored in the transponder memory.

2. A method according to claim 1, **characterized by** causing the check sum to be calculated on the basis of an algorithm which is identical for a group of transponders and different in comparison with other groups of transponders.

3. A method according to any one of claims 1 or 2, where calculation on the basis of the algorithm is caused to take place in the communicator (4) with each reading of a transponder (1); and wherein the calculated check sum is compared with the stored check sum transferred by means of the reflected signal (11).

4. A method according to any one of claims 1 to 3 inclusive, wherein calculation of the check sum in the communicator (4) does not include the check sum transferred from the transponder (1).

5. A method according to any one of claims 1 to 3 inclusive, wherein calculation of the check sum in the communicator (4) includes the check sum transferred from the transponder (1).

6. A transponder comprising at least one antenna (2), at least one memory (3) and at least one means for reflecting and modulating an inquiry signal (10) received from a communicator (4), wherein said reflected signal (11) includes data-carrying modulation, wherein the reflected signal (11) can be read by a communicator (4), and wherein said data-carrying modulation includes a check sum calculated on the basis of data stored in the transponder memory (3), **characterized in that** the transponder (1) includes a check sum stored permanently in the transponder memory (3).

7. A transponder according to claim 5, **characterized in that** the stored check sum is calculated on the basis of an algorithm that is identical for a group of transponders and different in comparison with other groups of transponders.